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Substitute for form 1449A/PTO				Application Number 10/534,544					
Т	NFOR	MATION DISCLOSURE	Filing Date	May, 10, 2005					
				First Named Inventor	Shmuel PIETROKOVSKI et				
STATEMENT BY APPLICANT Group Art Unit 1645									
	(use as many sheets as necessary)			Examiner Name	ame Not Yet Assigned				
Sheet	1	Of	4	Attorney Docket Number	29489				
	OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS								
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.							
	1	Amitai et al. "Distribution and Function of New Bacterial Intein-Like Protein Domains", Molecular Microbiology, 47(1): 61-73, 2003.							
~	2	Fraser et al. "Novel Neisserial Polypeptides Predicted to Be Useful Antigens for Vaccines and Diagnostics", Database EMBL 'Online!, No. AAY75498, 2000.							
-	3	Zhang et al "Construction of A Mini-Intein Fusion System to Allow Both Direct							
	'								
		Monitoring of Soluble Protein Expression and Rapid Purification of Target Proteins", Gene, 275(2): 241-252, 2001. P.250, l-h Col., § 3 - P.251, r-h Col., § 1,							
	1	Figs.1, 3.							
	4	Humphries et al. "Expression of the Class 1 Outer-Membrane Protein of Neisseria							
		Meningitidis in Escherichia Coli and Purification Using A Self-Cleavable Affinity Tag", Protein Expression and Purification, 26(2): 243-248, 2002. P.247, r-h Col., §							
	<u> </u>	2 - P.248, I-h Col., § 2, Fig. I.							
	5	Aspöck et al. "Caenorhabditis Elegans Has Scores of Hedgehog-Related Genes:							
		Sequence and Expression Analysis", Genome Research, 9(10): 909-923, 1999.							
	6	Pietrokovski "Intein Sprcad and Extinction in Evolution", Trends in Genetics 17(8): 465-472, 2001.							
	7	Buell et al. "Filamentous Hemagglutinin, Intein-Containing, Putative", Database Trembl 'Online!, No. Q880E1, 2003.							
	8	Brown et al. "Hypothetical Protein SCP1.201", Database Trembl 'Online!, No.							
	_	Q9ACV2, 2003.							
	9	Ren "Probable Phenazine Biosynthesis Family Protein", Database Trembl 'Online!,							
	10	No. Q8EZX6, 2003. Gloeckner et al. "Hypothetical Protein RB6107", Database Trembl 'Online!, No.							
	10	Q7UQT4, 2003.							
	11	Omura et al. "Hypothetical Protein SAV200", Database Trembl. 'Online!, No.							
	11	Q82RE3, 2003.	ie!, No.						
	12		A 1/206	C. Databasa Trambl. 'Onlin	val No				
	12	Omura et al. "Hypothetical Protein SAV286", Database Trembl. 'Online!, No.							
	13	Q82R58, 2003.							
	13	Omura et al. "Hypothetical Protein SAV5292", Database Trembl 'Online!, No.							
	 	Q82CQ1, 2003.							
	14	Ren "Hypothetical Protein LA3719", Database Trembl 'Online!, No. Q8EZY2, 2003.							
	15	Dassa et al. "Protein Splicing and Aut							
		Lacking A C'-Flanking Nucleophilic		ie", The Journal of Biologi	cal				
		Chemistry, 279(31): 32001-32007, 2004.							
-	16	Dassa et al. "New Type of Polyubiqui	"New Type of Polyubiquitin-Like Genes With Intein-Like						
		Autoprocessing Domains", Trends in	Genet						

7Oluwatosin Ogunbiyi/

05/04/2008

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Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: Continued to Protein Splicing Activity of Activity From A Magnetospirillum Magnetospirillum Like Element", Biochemical Society Transactions, 32(Part 2): 250-254, 2004. 18
OTHER PRIOR ART — NON PATENT LITERATURE DOCUMENTS 17 Southworth et al. "Rescue of Protein Splicing Activity From A Magnetospirillum Magnetotacticum Intein-Like Element", Biochemical Society Transactions, 32(Part 2): 250-254, 2004. 18 Dassa et al. "Origin and Evolution of Inteins and Other Hint Domains", Nucleic Acids and Molecular Biology, 16: 209-229, 2005. 19 Belfort et al. "Homing Endonucleases: Keeping the House in Order", Nucleic Acids Research, 25(17): 3379-3388, 1997. 20 Bürglin "Warthog and Groundhog, Novel Families Related to Hedgehog", Current Biology, 6(9): 1047-1950, 1996. 21 Cattoli et al. "Separation of MBP Fusion Proteins Through Affinity Membranes", Biotechnological Progresses, 18(1): 94-100, 2002. 22 Chong et al. "Protein Splicing Involving the Saccharomyces Cerevisiae VMA Intein", The Journal of Biological Chemistry, 271(36): 22159-22168, 1996. 23 Chong et al. "Single-Column Purification of Free Recombinant Proteins Using A Self-Cleavable Affinity Tag Derived From A Protein Splicing Element", Gene, 192: 271-281, 1997. 24 Chong et al. "Protein Splicing of the Saccharomyces Cerevisiae VMA Intein Without the Endonuclease Motifs", The Journal of Biological Chemistry, 272(25): 15587-15590, 1997. 25 Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. 26 Chong et al. "Widlizing the C-Terminal Cleavage Activity of A Protein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
17 Southworth et al. "Rescue of Protein Splicing Activity From A Magnetospirillum Magnetotacticum Intein-Like Element", Biochemical Society Transactions, 32(Part 2): 250-254, 2004. 18 Dassa et al. "Origin and Evolution of Inteins and Other Hint Domains", Nucleic Acids and Molecular Biology, 16: 209-229, 2005. 19 Belfort et al. "Homing Endonucleases: Keeping the House in Order", Nucleic Acids Research, 25(17): 3379-3388, 1997. 20 Birglin "Warthog and Groundhog, Novel Families Related to Hedgehog", Current Biology, 6(9): 1047-1950, 1996. 21 Cattoli et al. "Separation of MBP Fusion Proteins Through Affinity Membranes", Biotechnological Progresses, 18(1): 94-100, 2002. 22 Chong et al. "Protein Splicing Involving the Saccharomyces Cerevisiae VMA Intein", The Journal of Biological Chemistry, 271(36): 22159-22168, 1996. 23 Chong et al. "Single-Column Purification of Free Recombinant Proteins Using A Self-Cleavable Affinity Tag Derived From A Protein Splicing Element", Gene, 192: 271-281, 1997. 24 Chong et al. "Protein Splicing of the Saccharomyces Cerevisiae VMA Intein Without the Endonuclease Motifs", The Journal of Biological Chemistry, 272(25): 15587-15590, 1997. 25 Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. 26 Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtoein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
Magnetotacticum Intein-Like Element", Biochemical Society Transactions, 32(Part 2): 250-254, 2004. 18 Dassa et al. "Origin and Evolution of Inteins and Other Hint Domains", Nucleic Acids and Molecular Biology, 16: 209-229, 2005. 19 Belfort et al. "Homing Endonucleases: Keeping the House in Order", Nucleic Acids Research, 25(17): 3379-3388, 1997. 20 Bürglin "Warthog and Groundhog, Novel Families Related to Hedgehog", Current Biology, 6(9): 1047-1950, 1996. 21 Cattoli et al. "Separation of MBP Fusion Proteins Through Affinity Membranes", Biotechnological Progresses, 18(1): 94-100, 2002. 22 Chong et al. "Protein Splicing Involving the Saccharomyces Cerevisiae VMA Intein", The Journal of Biological Chemistry, 271(36): 22159-22168, 1996. 23 Chong et al. "Single-Column Purification of Free Recombinant Proteins Using A Self-Cleavable Affinity Tag Derived From A Protein Splicing Element", Gene, 192: 271-281, 1997. 24 Chong et al. "Protein Splicing of the Saccharomyces Cerevisiae VMA Intein Without the Endonuclease Motifs", The Journal of Biological Chemistry, 272(25): 15587-15590, 1997. 25 Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. 26 Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtocin Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
18 Dassa et al. "Origin and Evolution of Inteins and Other Hint Domains", Nucleic Acids and Molecular Biology, 16: 209-229, 2005. 19 Belfort et al. "Homing Endonucleases: Keeping the House in Order", Nucleic Acids Research, 25(17): 3379-3388, 1997. 20 Bürglin "Warthog and Groundhog, Novel Families Related to Hedgehog", Current Biology, 6(9): 1047-1950, 1996. 21 Cattoli et al. "Separation of MBP Fusion Proteins Through Affinity Membranes", Biotechnological Progresses, 18(1): 94-100, 2002. 22 Chong et al. "Protein Splicing Involving the Saccharomyces Cerevisiae VMA Intein", The Journal of Biological Chemistry, 271(36): 22159-22168, 1996. 23 Chong et al. "Single-Column Purification of Free Recombinant Proteins Using A Self-Cleavable Affinity Tag Derived From A Protein Splicing Element", Gene, 192: 271-281, 1997. 24 Chong et al. "Protein Splicing of the Saccharomyces Cerevisiae VMA Intein Without the Endonuclease Motifs", The Journal of Biological Chemistry, 272(25): 15587-15590, 1997. 25 Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. 26 Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtoein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
18 Dassa et al. "Origin and Evolution of Inteins and Other Hint Domains", Nucleic Acids and Molecular Biology, 16: 209-229, 2005. 19 Belfort et al. "Homing Endonucleases: Keeping the House in Order", Nucleic Acids Research, 25(17): 3379-3388, 1997. 20 Bürglin "Warthog and Groundhog, Novel Families Related to Hedgehog", Current Biology, 6(9): 1047-1950, 1996. 21 Cattoli et al. "Separation of MBP Fusion Proteins Through Affinity Membranes", Biotechnological Progresses, 18(1): 94-100, 2002. 22 Chong et al. "Protein Splicing Involving the Saccharomyces Cerevisiae VMA Intein", The Journal of Biological Chemistry, 271(36): 22159-22168, 1996. 23 Chong et al. "Single-Column Purification of Free Recombinant Proteins Using A Self-Cleavable Affinity Tag Derived From A Protein Splicing Element", Gene, 192: 271-281, 1997. 24 Chong et al. "Protein Splicing of the Saccharomyces Cerevisiae VMA Intein Without the Endonuclease Motifs", The Journal of Biological Chemistry, 272(25): 15587-15590, 1997. 25 Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. 26 Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtoein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
Acids and Molecular Biology, 16: 209-229, 2005. Belfort et al. "Homing Endonucleases: Keeping the House in Order", Nucleic Acids Research, 25(17): 3379-3388, 1997. Birglin "Warthog and Groundhog, Novel Families Related to Hedgehog", Current Biology, 6(9): 1047-1950, 1996. Cattoli et al. "Separation of MBP Fusion Proteins Through Affinity Membranes", Biotechnological Progresses, 18(1): 94-100, 2002. Chong et al. "Protein Splicing Involving the Saccharomyces Cerevisiae VMA Intein", The Journal of Biological Chemistry, 271(36): 22159-22168, 1996. Chong et al. "Single-Column Purification of Free Recombinant Proteins Using A Self-Cleavable Affinity Tag Derived From A Protein Splicing Element", Gene, 192: 271-281, 1997. Chong et al. "Protein Splicing of the Saccharomyces Cerevisiae VMA Intein Without the Endonuclease Motifs", The Journal of Biological Chemistry, 272(25): 15587-15590, 1997. Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtoein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
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Bürglin "Warthog and Groundhog, Novel Families Related to Hedgehog", Current Biology, 6(9): 1047-1950, 1996. 21 Cattoli et al. "Separation of MBP Fusion Proteins Through Affinity Membranes", Biotechnological Progresses, 18(1): 94-100, 2002. 22 Chong et al. "Protein Splicing Involving the Saccharomyces Cerevisiae VMA Intein", The Journal of Biological Chemistry, 271(36): 22159-22168, 1996. 23 Chong et al. "Single-Column Purification of Free Recombinant Proteins Using A Self-Cleavable Affinity Tag Derived From A Protein Splicing Element", Gene, 192: 271-281, 1997. 24 Chong et al. "Protein Splicing of the Saccharomyces Cerevisiae VMA Intein Without the Endonuclease Motifs", The Journal of Biological Chemistry, 272(25): 15587-15590, 1997. 25 Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. 26 Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtocin Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
Current Biology, 6(9): 1047-1950, 1996. 21 Cattoli et al. "Separation of MBP Fusion Proteins Through Affinity Membranes", Biotechnological Progresses, 18(1): 94-100, 2002. 22 Chong et al. "Protein Splicing Involving the Saccharomyces Cerevisiae VMA Intein", The Journal of Biological Chemistry, 271(36): 22159-22168, 1996. 23 Chong et al. "Single-Column Purification of Free Recombinant Proteins Using A Self-Cleavable Affinity Tag Derived From A Protein Splicing Element", Gene, 192: 271-281, 1997. 24 Chong et al. "Protein Splicing of the Saccharomyces Cerevisiae VMA Intein Without the Endonuclease Motifs", The Journal of Biological Chemistry, 272(25): 15587-15590, 1997. 25 Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. 26 Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtoein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
21 Cattoli et al. "Separation of MBP Fusion Proteins Through Affinity Membranes", Biotechnological Progresses, 18(1): 94-100, 2002. 22 Chong et al. "Protein Splicing Involving the Saccharomyces Cerevisiae VMA Intein", The Journal of Biological Chemistry, 271(36): 22159-22168, 1996. 23 Chong et al. "Single-Column Purification of Free Recombinant Proteins Using A Self-Cleavable Affinity Tag Derived From A Protein Splicing Element", Gene, 192: 271-281, 1997. 24 Chong et al. "Protein Splicing of the Saccharomyces Cerevisiae VMA Intein Without the Endonuclease Motifs", The Journal of Biological Chemistry, 272(25): 15587-15590, 1997. 25 Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. 26 Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtoein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
Membranes", Biotechnological Progresses, 18(1): 94-100, 2002. Chong et al. "Protein Splicing Involving the Saccharomyces Cerevisiae VMA Intein", The Journal of Biological Chemistry, 271(36): 22159-22168, 1996. Chong et al. "Single-Column Purification of Free Recombinant Proteins Using A Self-Cleavable Affinity Tag Derived From A Protein Splicing Element", Gene, 192: 271-281, 1997. Chong et al. "Protein Splicing of the Saccharomyces Cerevisiae VMA Intein Without the Endonuclease Motifs", The Journal of Biological Chemistry, 272(25): 15587-15590, 1997. Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtoein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
22 Chong et al. "Protein Splicing Involving the Saccharomyces Cerevisiae VMA Intein", The Journal of Biological Chemistry, 271(36): 22159-22168, 1996. 23 Chong et al. "Single-Column Purification of Free Recombinant Proteins Using A Self-Cleavable Affinity Tag Derived From A Protein Splicing Element", Gene, 192: 271-281, 1997. 24 Chong et al. "Protein Splicing of the Saccharomyces Cerevisiae VMA Intein Without the Endonuclease Motifs", The Journal of Biological Chemistry, 272(25): 15587-15590, 1997. 25 Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. 26 Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtoein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
Intein", The Journal of Biological Chemistry, 271(36): 22159-22168, 1996. 23 Chong et al. "Single-Column Purification of Free Recombinant Proteins Using A Self-Cleavable Affinity Tag Derived From A Protein Splicing Element", Gene, 192: 271-281, 1997. 24 Chong et al. "Protein Splicing of the Saccharomyces Cerevisiae VMA Intein Without the Endonuclease Motifs", The Journal of Biological Chemistry, 272(25): 15587-15590, 1997. 25 Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. 26 Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtoein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
Chong et al. "Single-Column Purification of Free Recombinant Proteins Using A Self-Cleavable Affinity Tag Derived From A Protein Splicing Element", Gene, 192: 271-281, 1997. Chong et al. "Protein Splicing of the Saccharomyces Cerevisiae VMA Intein Without the Endonuclease Motifs", The Journal of Biological Chemistry, 272(25): 15587-15590, 1997. Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtoein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
Self-Cleavable Affinity Tag Derived From A Protein Splicing Element", Gene, 192: 271-281, 1997. Chong et al. "Protein Splicing of the Saccharomyces Cerevisiae VMA Intein Without the Endonuclease Motifs", The Journal of Biological Chemistry, 272(25): 15587-15590, 1997. Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtoein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
192: 271-281, 1997. 24 Chong et al. "Protein Splicing of the Saccharomyces Cerevisiae VMA Intein Without the Endonuclease Motifs", The Journal of Biological Chemistry, 272(25): 15587-15590, 1997. 25 Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. 26 Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtoein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
Chong et al. "Protein Splicing of the Saccharomyces Cerevisiae VMA Intein Without the Endonuclease Motifs", The Journal of Biological Chemistry, 272(25): 15587-15590, 1997. Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtoein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
272(25): 15587-15590, 1997. 25 Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. 26 Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Protein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
272(25): 15587-15590, 1997. 25 Chong et al. "Modulation of Protein Splicing of the Saccharomyces Cerevisiae Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. 26 Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Protein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
Vacuolar Membrane ATPase Intein", The Journal of Biological Chemistry, 273(17): 10567-10577, 1998. 26 Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtoein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
273(17): 10567-10577, 1998. 26 Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtoein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
26 Chong et al. "Utilizing the C-Terminal Cleavage Activity of A Prtoein Splicing Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
Element to Purify Recombinant Proteins in A Single Chromatographic Step", Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
Nucleic Acids Research, 26(22): 5109-5115, 1998. 27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
27 Clonis "High-Performance Affinity Chromatography (HPAC)", HPLC of Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
Macromolecules: A Practical Approach, IRL Press, Chap.6: 157-182, 1989. 28 Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
Coote "Structural and Functional Relationships Among the RTX Toxin Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
Determinants of Gram-Negative Bacteria", FEMS Microbiology Reviews, 88: 137-162, 1992.
137-162, 1992.
137-162, 1992.
29 Dalgaard et al. "Statistical Modeling, Phylogenetic Analysis and Structure
Prediction of A Protein Splicing Domain Common to Inteins and Hedgehog
Proteins", Journal of Computational Biology, 4(2): 193-214, 1997.
Derbyshire et al. "Genetic Definition of A Protein-Splicing Domain: Functional
Mini-Inteins Support Structure Predictions and A Model for Intein Evolution",
Proc. Natl. Acad. Sci. USA, 94: 11466-11471, 1997.
Fouts et al. "Genomewide Identification of Pseudomonas Syringae Pv. Tomato
DC3000 Promoters Controlled by the HrpL Alternative Sigma Factor", Proc.
Natl. Acad. Sci. USA, 99(4): 2275-2280, 2002.
Gimble et al. "Homing of A DNA Endonuclease Gene by Meiotic Gene
Conversion in Saccharomyces Cerevisiae", Nature, 357(6376): 301-306, 1992.
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ignature Considered /Oluwatosin Ogunbiyi/ 05/04/2008

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		OTHER PRIOR ART – NON PATE					
	33	Guan et al. "Production of Extracellula					
		Using Maltose-Binding Protein Fusion Purification, 26: 229-234, 2002.			10		
	34	Tanaka Hall et al. "Crystal Structure of					
		Domain: Homology Between Hedgeho	g and	Self-Splicing Proteins", C	Cell,		
		91: 85-97, 1997.					
	35	Hammerschmidt et al. "The World Acc	cording	g to Hedgehog", Trends ii	ı		
		Genetics, 13(1): 14-21, 1997.					
	36	Haselkorn et al. "The Rhodobacter Cap	psulatu	is Genome", Photosynthe:	sis		
		Research, 70: 43-52, 2001.					
	37	Hirata et al. "Molecular Structure of A					
		Catalytic Subunit of H+-Translocating			n		
		Vacuolar Membranes of Saccharomyce					
		Biological Chemistry, 265(12): 6726-6					
	38	Jack "Immunoaffinity Chromatography	y", Mo	lecular Biotechnology, 1:	59-		
		86, 1994.					
	39	James et al. "The Biology of E Colicin	s: Para	idigms and Paradoxes",			
	10	Microbiology, 142: 1569-1580, 1996.			47		
	40	Janson et al. "Packings in Affinity Chr. 781, 1990.	omato	grapny, recnniques, P.7	4/-		
	41	Jensen et al. "Delayed Extraction Impr	oves S	pecificity in Database Se	arches		
		by Matrix-Assisted Laser Desorption/1	onizat	ion Peptide Maps", Rapid			
		Communications in Mass Spectrometry					
	42	Kane et al. "Protein Splicing Converts			o the		
		69-KD Subunit of the Vacuolar H\$^+\$	S-Aden	osine Triphosphatase",			
		Science, 250(4981): 651-657, 1990.					
	43	Kaufmann et al. "Crystal Structure of t					
		Single-Chain Fragment Complexed to 1ts Antigen", Journal of Molecular					
		Biology, 318: 135-147, 2002.		*:			
	44	Kussmann et al. "Matrix-Assisted Lase					
		Spectrometry Sample Preparation Tech					
		and Protein Analytes", Journal of Mass					
	45	Narayanan "Preparative Affinity Chron		aphy of Proteins", Journa	of		
		Chromatography A, 658: 237-258, 199					
	46	Nilsson et al. "Affinity Fusion Strategi			nd		
		Immobilization of Recombinant Protei	ıns", Pı	rotein Expression and			
		Purification, 11: 1-16, 1997.	OC	01			
	47	Nisnevitch et al. "The Solid Phase in A			gies		
		for Antibody Attachement", Journal of	Bloch	iemical and Biophysical			
		Methods, 49: 467-480, 2001.		6 1 1 1 1 7	-		
	48	Noren et al. "Dissecting the Chemistry					
		Applications", Angewandte Chemie, In	nternat	ional Edition, 39: 450-46	0,		
		2000.	-				
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TIOCI .	- 	OTHER PRIOR ART – NON PATENT					
	49	Paulus "Protein Splicing and Related Form					
	173	Annual Review of Biochemistry, 69: 447-4		ing,			
	50	Perler et al. "Protein Splicing and Its Appli		- i			
	30	Biotechnology, 11: 377-383, 2000.	cations, Current Opinion	1 111			
		Devlement of Uprotein Splicing Flowerty Let	i I F-Asi A D-6	iii			
	Perler et al. "Protein Splicing Elements: Inteins and Exteins - A Definition of				ļ		
	Terms and Recommended Nomenclature", Nucleic Acids Research, 22(7):						
		1125-1127, 1994.					
	52	Pietrokovski "Conserved Sequence Feature					
		Their Use in Identifying New Inteins and R	Lelated Proteins", Protein	Science, 3:			
		2340-2350, 1994.		,			
	53 Pietrokovski "Modular Organization of Inteins and C-Terminal Autocatalytic						
		Domains", Protein Science, 7: 64-71, 1998.					
	54	Porter et al. "Hedgehog Patterning Activity: Role of A Lipophilic Modification					
	Mediated by the Carboxy-Terminal Auotprocessing Domain", Cell, 86: 21-34,						
		1996.	_				
	55	Porter et al. "Cholesterol Modification of H	ledgehog Signaling Prote	ins in			
		Animal Development", Science, 274(5285)					
	56	Sano et al. "Streptavidin-Containing Chime					
		Production", Methods in Enzymology, 326					
	57	Sano et al. "Genetic Engineering of Strepta		tv Tag"			
	"	Journal of Chromatography B, 715: 85-91,					
	58	Schmidt et al. "Molecular Interaction Betw					
	and Its Cognate Target, Strepatvidin", Journal of Molecular Biology, 255: 753-766, 1996.						
	50	59 Schmidt et al. "The Random Peptide Library-Assisted Engineering of A C-					
	39	Terminal Affinity Peptide, Useful for the Detection and Purification of A					
		Functional Ig Fv Fragment", Protein Engin					
	60	Sheibani "Prolkaryotic Gene Fusion Expres					
		Structural and Functional Studies of Protein					
		Biotechnology, 29(1): 77-90, 1999.					
	61	Shingledecker et al. "Molecular Dissection					
		RecA Intein: Design of A Minimal Intein and of A Trans-Splicing System					
		Involving Two Intein Fragments", Gene, 207: 187-195, 1998.					
	62	Skerra et al. "Applications of A Peptide Lig					
		Tag", Biomolecular Engineering, 16: 79-86	ļ				
	63	Stoddard et al. "Breaking Up Is Hard to Do					
		3-5, 1998.					
	64	Vorm et al. "Improved Resolution and Ver					
		of Matrix Surfaces Made by Fast Evaporat	ion", Analytical Chemisti	ry, 66(19):			
	3281-3287, 1994. 65 Wilchek et al. "An Overview of Affinity Chromatography", Methods in						
		Molecular Biology, 147: 1-6, 2000.					
	66	Xu et al. "The Mechanism of Protein Splic	ing and Its Modulation by	у			
		Mutation", The EMBO Journal, 15(19): 51		•			
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		/Oluwatosin Ogunbiyi/	C	onsidered	- 05/04/2008		

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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